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Description based on: Vol. 3, no. 5; title from cover. Latest issue consulted: Vol. 42, no. 7 (June 2003).

Some numbers called "special issue."

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-1

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```
=> s monocye () chemoattractant () protein-1
             0 MONOCYE
             1 MONOCYES
             1 MONOCYE
                 (MONOCYE OR MONOCYES)
          8487 CHEMOATTRACTANT
          1702 CHEMOATTRACTANTS
          9385 CHEMOATTRACTANT
                 (CHEMOATTRACTANT OR CHEMOATTRACTANTS)
       1632319 PROTEIN
       1126561 PROTEINS
       1892055 PROTEIN
                 (PROTEIN OR PROTEINS)
       7921402 1
         29276 PROTEIN-1
                 (PROTEIN(W)1)
             0 MONOCYE (W) CHEMOATTRACTANT (W) PROTEIN-1
L1
=> s monocyte () chemoattractant () protein?
         33901 MONOCYTE
         26545 MONOCYTES
         42960 MONOCYTE
                  (MONOCYTE OR MONOCYTES)
          8487 CHEMOATTRACTANT
          1702 CHEMOATTRACTANTS
          9385 CHEMOATTRACTANT
                  (CHEMOATTRACTANT OR CHEMOATTRACTANTS)
       1930626 PROTEIN?
          4650 MONOCYTE (W) CHEMOATTRACTANT (W) PROTEIN?
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=> s monocyte () chemoattractant () protein-1?
         33901 MONOCYTE
         26545 MONOCYTES
         42960 MONOCYTE
                  (MONOCYTE OR MONOCYTES)
TERM '1?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
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You have entered a truncated stem which occurs in too many terms. Make the stem longer and try again. For example, if your original term was 'degr?' to search for variations and the abbreviation for 'degradation', you could replace it with the expression '(degrdn OR degrad?)'. If your search term was numeric, e.g., 'C>5', reduce the size of the range.

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=> s monocyte () chemoattractant () protein-1
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         26545 MONOCYTES
         42960 MONOCYTE
                 (MONOCYTE OR MONOCYTES)
          8487 CHEMOATTRACTANT
          1702 CHEMOATTRACTANTS
          9385 CHEMOATTRACTANT
                  (CHEMOATTRACTANT OR CHEMOATTRACTANTS)
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       1126561 PROTEINS
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L3
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        880882 INHIBITOR?
          1064 L3 AND INHIBITOR?
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             3 GLOMERULER
         79907 NEP?
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             0 L4 AND GLOMERULER (W) NEP?
=> s 14 and lung () fibros?
        154872 LUNG
         39641 LUNGS
        168387 LUNG
                  (LUNG OR LUNGS)
         31792 FIBROS?
          1398 LUNG (W) FIBROS?
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=> s 16 and review/dt
       1734809 REVIEW/DT
             0 L6 AND REVIEW/DT
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              4 INFLAMM
          11458 BOWEL
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11596 BOWEL
                 (BOWEL OR BOWELS)
        686779 DISEASE
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        121107 INFLAMMATORY
           255 INFLAMMATORIES
        121183 INFLAMMATORY
                 (INFLAMMATORY OR INFLAMMATORIES)
         11458 BOWEL
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         11596 BOWEL
                  (BOWEL OR BOWELS)
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           4650 S MONOCYTE () CHEMOATTRACTANT () PROTEIN?
           4357 S MONOCYTE () CHEMOATTRACTANT () PROTEIN-1
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              O S L8 AND INFLAMM () BOWEL () DISEASE
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               0 S L12 AND REVIEW/DT
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=> s 14 and inflamm?
        182763 INFLAMM?
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L14
=> s 114 and review/dt
       1734809 REVIEW/DT
            19 L14 AND REVIEW/DT
L15
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=> d 115, ibib abs, 1-19

L15 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full References Text ACCESSION NUMBER:

2004:148100 HCAPLUS

DOCUMENT NUMBER:

140:368782

TITLE:

Cardiovascular benefits of aldosterone receptor

antagonists

AUTHOR(S):

Williams, G. H.

CORPORATE SOURCE:

Harvard Medical School, Brigham and Women's Hospital,

Boston, MA, USA

SOURCE:

Climacteric (2003), 6(Suppl. 3), 29-35

CODEN: CLIMFC; ISSN: 1369-7137

PUBLISHER: DOCUMENT TYPE:

Taylor & Francis Ltd. Journal; General Review

English LANGUAGE:

A review. There is considerable evidence in the setting of cardiovascular AB disease to suggest that, in addn. to the classic effects of aldosterone on sodium retention, blood vol., blood pressure and potassium homeostasis, aldosterone is involved in fibrotic end-organ damage by intermediate mechanisms involving an interplay between the mineralocorticoid receptor, sodium intake and a variety of mol. messengers. Such processes may help to explain the redn. in mortality that can be achieved in patients with severe heart failure and post-myocardial infarction by the addn. of an aldosterone receptor antagonist to std. therapy. Studies in animal models treated with the nitric oxide inhibitor No-nitro-L-arginine Me ester (L-NAME), angiotensin II and salt, with and without adrenalectomy, have demonstrated that myocardial damage can be eliminated by adrenalectomy or by administering an aldosterone receptor antagonist and is induced by adding back aldosterone to adrenalectomized animals. Importantly, at least a modest salt intake is an obligate co-factor. Other animal studies have established that an early stage in aldosterone-assocd. myocardial damage involves the release of proinflammatory mols., including cyclo-oxygenase type 2, osteopontin and monocyte chemoattractant protein-1. Taken together, these findings suggest that aldosterone in the presence of salt intake is a major cardiovascular risk factor mediated by inflammatory and fibrotic processes. Thus, mineralocorticoid receptor antagonists are likely to be effective addnl. agents to treat a broad range of cardiovascular diseases.

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full References Text

ACCESSION NUMBER:

2004:119505 HCAPLUS

DOCUMENT NUMBER:

140:251067 TITLE:

AUTHOR(S):

Modulators of urinary stone formation

Khan, Saeed R.; Kok, Dirk J.

CORPORATE SOURCE:

Department of Pathology, University of Florida,

Gainesville, FL, USA

SOURCE:

Frontiers in Bioscience (2004), 9, 1450-1482

CODEN: FRBIF6; ISSN: 1093-4715

URL: http://www.bioscience.org/2004/v9/af/1347/pdf.pdf

Frontiers in Bioscience PUBLISHER:

Journal; General Review; (online computer file) DOCUMENT TYPE:

English LANGUAGE:

A review. Urine contains compds. that modulate the nucleation, growth and aggregation of crystals as well as their attachment to renal epithelial

cells. These compds. may function to protect the kidneys against: 1, the possibility of crystn. in tubular fluid and urine, which are generally metastable with respect to calcium salts, 2, crystal retention within the kidneys thereby preventing stone formation and 3, possibly against plaque formation at the nephron basement membrane. Since oxalate is the most common stone type, the effect of various modulators on calcium oxalate (CaOx) crystn. has been examd. in greater details. Most of the inhibitory activity resides in macromols. such as glycoproteins and glycosaminoglycans while nucleation promotion activity is most likely sustained by membrane lipids. Nephrocalcin, Tamm-Horsfall protein, osteopontin, urinary prothrombin fragment 1, and bikunin are the most studied inhibitory proteins while chondroitin sulfate (CS), heparan sulfate (HS) and hyaluronic acid (HA) are the best studied glycosaminoglycans. Crystn. modulating macromols. discussed here are also prominent in cell injury, inflammation and recovery. Renal epithelial cells on exposure to oxalate and CaOx crystals produce some of the inflammatory mols. such as monocyte chemoattractant protein-1 (MCP-1) with no apparent role in crystal formation. In addn., macrophages surround the CaOx crystals present in the renal interstitium. These observations indicate a close relationship between inflammation and nephrolithiasis.

REFERENCE COUNT:

THERE ARE 324 CITED REFERENCES AVAILABLE FOR 324 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

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ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE: AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

2003:657221 HCAPLUS

139:212488

Inflammatory cytokines and cardiovascular disease

Ito, Takayuki; Ikeda, Uichi

Division of Cardiovascular Medicine, Jichi Medical

School, Tochigi, 329-0498, Japan

Current Drug Targets: Inflammation & Allergy (2003),

2(3), 257-265

CODEN: CDTICU; ISSN: 1568-010X Bentham Science Publishers Ltd.

Journal; General Review

English

A review. The designation of atherosclerosis as a chronic inflammatory process represents an interesting paradigmatic shift for cardiologists. The plasma concns. of interleukin-6 and its hepatic byproduct, C-reactive protein, may reflect the intensity of occult plaque inflammation and the vulnerability to rupture. Monocyte chemoattractant protein-1 and interleukin-8 play a crucial role in initiating atherosclerosis by recruiting monocytes/macrophages to the vessel wall, which promotes atherosclerotic lesions and plaque vulnerability. In addn., circulating levels of these proinflammatory cytokines increase in patients with acute myocardial infarction and unstable angina, but not in those with stable angina. Also, the plasma concns. of these cytokines increase after percutaneous coronary intervention, causing late restenosis after the procedure. Angiotensin II and other atherogenic factors induce these cytokines in the cardiovascular tissues through the activation of transcription factors, such as nuclear factor-kB or peroxisome proliferator-activated receptors. Conversely, HMG-CoA reductase inhibitors (statins) can potently inhibit these proinflammatory factors in the vessels. A small GTP-binding protein, Rho, may be a key mol. to explain the anti-inflammatory effects of statins. Interleukin-10 also exerts anti-inflammatory effects on the cardiovascular tissues, possibly

by deactivating proinflammatory cytokines and inducible nitric oxide synthase. Gene therapy using interleukin-10 may be a promising means for untreatable or complicated cases of cardiovascular diseases. Thus, therapeutic modulations of these inflammatory cytokines may be useful in the prevention of atherosclerosis and future cardiovascular events.

REFERENCE COUNT:

THERE ARE 137 CITED REFERENCES AVAILABLE FOR 137 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE **FORMAT**

L15 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Clang References Text

ACCESSION NUMBER:

2003:521661 HCAPLUS

DOCUMENT NUMBER:

139:275277

TITLE:

Monocyte Chemoattractant Protein-1 (CCL2) in Inflammatory Disease and Adaptive Immunity: Therapeutic Opportunities and Controversies

AUTHOR(S):

Daly, Christine; Rollins, Barrett J.

CORPORATE SOURCE:

Department of Medical Oncology, Dana-Farber Cancer

Institute, Boston, MA, 02115, USA

SOURCE:

Microcirculation (New York, NY, United States) (2003),

10(3/4), 247-257

CODEN: MROCER; ISSN: 1073-9688

PUBLISHER: DOCUMENT TYPE:

LANGUAGE:

Nature Publishing Group Journal; General Review

English

A review. Monocyte chemoattractant protein (MCP)-1 (CCL2) specifically attracts monocytes and memory T cells. Its expression occurs in a variety of diseases characterized by mononuclear cell infiltration, and there is substantial biol. and genetic evidence for its essential role in atherosclerosis and multiple sclerosis. Despite intensive screening, there are as yet no small-mol. antagonists of the receptor of MCP-1/CCL2, CCR2. However, biol. agents, including antibodies and inhibitory peptides, have been developed and may be useful for these indications. Recent evidence from genetically modified mice indicates that MCP-1 and CCR2 have unanticipated effects on T helper (Th) cell development. However, unlike the identical phenotypes of MCP-1/CCL2-/- and CCR2-/- mice in inflammatory diseases, the phenotypes of these mice are disparate in adaptive immunity: MCP-1 stimulates Th2 polarization, whereas CCR2 activation stimulates Th1 polarization. This presents both a challenge and an opportunity for targeting the MCP-1/CCL2/CCR2 axis in disease.

REFERENCE COUNT:

THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

73

Citing Full References

CORPORATE SOURCE:

2003:493357 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

140:69932 New insights into the treatment of pulmonary fibrosis

TITLE: Yurovsky, Vladimir V. AUTHOR (S):

Department of Medicine, University of Maryland School

of Medicine, Baltimore, MD, 21201, USA

Expert Opinion on Therapeutic Patents (2003), 13(7), SOURCE:

957-967

CODEN: EOTPEG; ISSN: 1354-3776

Ashley Publications Ltd. PUBLISHER: Journal; General Review DOCUMENT TYPE:

English LANGUAGE:

AB A review. Pulmonary fibrosis is a serious outcome of chronic lung

inflammation or environmental exposure. It is characterized by the replacement of lung epithelial tissues by fibroblasts in the repair process following lung injury and by excessive deposition of extracellular matrix that ultimately leads to a loss of functional gas exchange units. Current therapeutic strategies are aimed predominantly at suppressing lung inflammation, the role of which has been documented in the development of fibrosis. Data generated over recent years indicate that fibroproliferation and abnormalities in epithelial repair may have a greater pathophysiol. role than inflammation, thus representing new opportunities for therapeutic interventions. This review examines the patent literature in this area from 1999 to 2002 with some discussion of primary literature and older citations when appropriate.

REFERENCE COUNT:

THERE ARE 106 CITED REFERENCES AVAILABLE FOR 106 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L15 ANSWER 6 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

et he Full References Text

ACCESSION NUMBER:

DOCUMENT NUMBER:

Anti-inflammatory therapeutic strategy against TITLE: atherosclerosis and restenosis after coronary

2003:281476 HCAPLUS

intervention

139:127233

AUTHOR(S):

CORPORATE SOURCE:

Kitamoto, Shiro; Egashira, Kensuke; Takeshita, Akira Department of Cardiovascular Medicine, Graduate School

of Medical Science, Kyushu University, Fukuoka,

812-8582, Japan

SOURCE:

Journal of Pharmacological Sciences (Tokyo, Japan)

(2003), 91(3), 192-196

CODEN: JPSTGJ; ISSN: 1347-8613 Japanese Pharmacological Society

DOCUMENT TYPE:

LANGUAGE:

PUBLISHER:

Journal; General Review English

A review. Atherosclerosis and restenosis after percutaneous coronary interventions have become major issues in public health in Western countries. Recent studies have revealed that inflammation plays an important role in pathogenesis of cardiovascular diseases. Vascular injury may involve an inflammatory response, which accelerates the recruitment and activation of monocytes through monocyte chemoattractant protein-1 (MCP-1). MCP-1 expression has been shown to be increased in atherosclerotic lesions and balloon injured arteries. Recently, we have devised a new strategy for anti-MCP-1 gene therapy by transfecting mutant MCP-1 gene into skeletal muscle. This mutant MCP-1 has been shown to work as a dominant-neg. inhibitor of MCP-1. We here demonstrate that this strategy limited progression of pre-existing atherosclerotic lesions and improved the lesion compn. into a more stable phenotype in the hypercholesterolemic mice. This strategy also suppressed monocyte infiltration/activation in the injured site and markedly inhibited restenotic changes (neointimal hyperplasia) in the carotid artery in rabbits, rats, and monkeys after balloon injury or stent implantation. Therefore, MCP-1-mediated monocyte infiltration is essential in the development of restenotic changes as well as atherosclerosis progression. MCP-1 can be a practical therapeutic target for human restenosis and atherosclerosis.

REFERENCE COUNT:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS 14 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

References

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

2003:201720 HCAPLUS

139:254552

Chemistry and pharmacology of vascular protectants: A novel approach to the treatment of atherosclerosis and

coronary artery disease

AUTHOR(S):

Wasserman, Martin A.; Sundell, Cynthia L.; Kunsch, Charles; Edwards, David; Meng, Charles Q.; Medford,

Russell M.

CORPORATE SOURCE:

Department of Discovery Research, AtheroGenics, Inc.,

Alpharetta, GA, 30004, USA

SOURCE:

American Journal of Cardiology (2003), 91(3A), 34A-40A

CODEN: AJCDAG; ISSN: 0002-9149

PUBLISHER: DOCUMENT TYPE: Excerpta Medica, Inc. Journal; General Review

LANGUAGE: English

This review addresses the role of oxidative stress in the pathol. of AΒ atherosclerosis and why it is now believed that atherosclerosis is not only a disease of oxidative stress but also of chronic inflammation. Perhaps more importantly, this review also describes the vascular protectant (V-protectant) technol. platform originated at AtheroGenics, Inc., from which a series of inhibitory compds. has emerged to treat a no. of chronic inflammatory diseases, including atherosclerosis. atherosclerosis, these drugs not only act as antioxidants, but also as lipid modulators, inhibitors of inflammation, and inhibitors of gene expression. It is also important to understand the basis for considering vascular cell adhesion mol.-1 (VCAM-1) as a redn.-oxidn.-sensitive protein, which has a key role in the early phases of atherosclerosis. review concludes with a description of the design and chem. of AtheroGenics' lead clin. development compd., AGI-1067, and an anal. of its preclin. in vitro and in vivo profile. AGI-1067 is a novel, potent antioxidant with anti-inflammatory properties. It inhibits gene expression of VCAM-1 and monocyte chemoattractant protein-1, decreases low-d. lipoprotein cholesterol levels, and prevents atherosclerosis in a no. of animal models. AGI-1067 is currently undergoing clin. trials as an antiatherosclerotic agent.

REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 8 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

16

Full Citina References Text ACCESSION NUMBER:

2003:151774 HCAPLUS

139:110891

TITLE:

Molecular Mechanisms Mediating Inflammation in

Vascular Disease Egashira, Kensuke

AUTHOR(S):

DOCUMENT NUMBER:

CORPORATE SOURCE:

Graduate School of Medical Sciences, Department of Cardiovascular Medicine, Kyushu University, Fukuoka,

Japan

SOURCE:

Hypertension (2003), 41(3, Pt. 2), 834-841

CODEN: HPRTDN; ISSN: 0194-911X Lippincott Williams & Wilkins

DOCUMENT TYPE:

PUBLISHER:

Journal; General Review

LANGUAGE:

English

A review. There are several clin. challenges for the treatment of intractable cardiovascular diseases, including restenosis, atherosclerotic complications resulting from plaque rupture, severe tissue ischemia, and heart failure. Emerging evidence suggests that an inflammatory process

is involved in the pathogenesis of such intractable diseases. particular, inflammatory responses to arterial injury, which cause continuous recruitment and activation of monocytes mainly through activation of the monocyte chemoattractant protein-1 (MCP-1) pathway, have a central role in restenosis and atherogenesis. devised a new strategy for anti-MCP-1 therapy by transfecting an N-terminal deletion mutant of the MCP-1 gene into skeletal muscles. mutant MCP-1 lacks the N-terminal amino acids 2 to 8, called 7ND, and works as a dominant-neg. inhibitor of MCP-1. We demonstrated that 7ND gene transfer suppresses monocyte infiltration/activation after arterial injury and markedly inhibits exptl. restenosis in animals after balloon injury or stent placement. Furthermore, 7ND gene transfer not only attenuated the development of early atherosclerotic lesions but also limited progression of preexisting atherosclerotic lesions and changed the lesion compn. into a more stable phenotype in hypercholesterolemic mice. Vascular inflammation mediated by MCP-1 might create a pos. feedback loop to enhance restenotic and atherosclerotic changes through activating lesional monocytes. Therefore, vascular inflammation mediated by MCP-1 has a central role in the development of exptl. restenosis, atherosclerosis, and plaque destabilization, leading to acute coronary syndrome. This strategy for gene therapy might be useful against human restenosis, thereby opening a new therapeutic window for antirestenosis and antiatherosclerosis paradigms.

REFERENCE COUNT:

THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS 49 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Full References Text

ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE: 2002:629506 HCAPLUS

138:197976

Pluripotential mechanisms of cardioprotection with

HMG-CoA reductase inhibitor therapy

Rosenson, Robert S.

Preventive Cardiology Center, Division of Cardiology,

Departments of Medicine and Preventive Medicine, Northwestern University Medical School, Chicago, IL,

American Journal of Cardiovascular Drugs (2001), 1(6), 411-420

CODEN: AJCDDJ; ISSN: 1175-3277

Adis International Ltd.

Journal; General Review

English

LANGUAGE: A review. Treatment with hydroxymethylglutaryl CoA (HMG-CoA) reductase inhibitors has been accompanied by a reduced risk of cardiovascular events. Rapid onset of clin. benefit and weak correlations between plasma low d. lipoprotein-cholesterol levels and coronary lumen change or cardiovascular events indicates that nonlipid mechanisms are involved in this beneficial effects with HMG-CoA reductase inhibitors. Furthermore, more rapid onset of clin. benefit with HMG-CoA reductase inhibitors in patients with acute coronary syndromes or acute myocardial infarction than in those with stable coronary heart disease suggest that HMG-CoA reductase inhibitors facilitate repair of ruptured or ulcerated atherosclerotic plaque, facilitate plaque stabilization and/or reduce thrombus formation on ruptured plaques. Treatment with HMG-CoA reductase inhibitors improved endothelial dysfunction in patients with hypercholesterolemia and this improvement in endothelial function was not correlated with redn. in total serum cholesterol levels. Similarly, redn. in endothelial pre-proendothelin mRNA expression and endothelin synthesis and blood

pressure lowering with HMG-CoA reductase inhibitors occurred independent of lipid-lowering. Finally, HMG-CoA reductase inhibitors increased endothelial nitric oxide levels i.e. upregulated endothelial nitric oxide synthetase expression via post-transcriptional mechanisms and prevented its down-regulation by oxidized LDL-C. HMG-CoA reductase inhibitors have been shown to modulate the immune response by inhibiting activation of immune-competent cells such as macrophages, and antigen presentation to macrophages by T cells. Treatment with HMG-CoA reductase inhibitors can reduce expression, prodn. and circulating levels of chemokines (monocyte chemoattractant protein-1) and proinflammatory cytokines [tumor necrosis factor α , interleukin (IL)-6 and IL-1 β]. HMG-CoA reductase inhibitors reduced inflammation in human atheroma: significantly fewer macrophages and T cells, less oxidized LDL-C and higher collagen content. In addn., treatment with HMG-CoA reductase inhibitor led to decreased cell death within the atheroma. Treatment with these agents also reduced expression of inducible cellular adhesion mols., decreased secretion of metalloproteinases by macrophages, reduced vascular smooth muscle cell apoptosis. Lastly, HMG-CoA reductase inhibitors appear to have important effects on the thrombogenesis: reduced expression of tissue factor prodn. and activity; increased prodn. of tissue factor package inhibitor; decreased platelet thrombus formation and improved fibrinolysis as a result of lowered plasminogen activator inhibitor-1 levels. As the pluripotential cardioprotective mechanisms of HMG-CoA reductase inhibitors are further elucidated, it is envisaged that treatment with HMG-CoA reductase inhibitors will be initiated earlier and more frequently in patients with hypercholesterolemia.

REFERENCE COUNT:

THERE ARE 90 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 10 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

90

References Text

2002:579996 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 137:320372

Angiotensin II as a pro-inflammatory mediator TITLE:

Phillips, M. Ian; Kagiyama, Shuntaro AUTHOR(S):

Departments of Physiology and Functional Genomics CORPORATE SOURCE:

College of Medicine, University of Florida,

Gainesville, FL, 32610, USA

Current Opinion in Investigational Drugs (PharmaPress SOURCE:

Ltd.) (2002), 3(4), 569-577 CODEN: COIDAZ; ISSN: 1472-4472

PharmaPress Ltd. PUBLISHER:

Journal; General Review DOCUMENT TYPE:

English LANGUAGE:

A review. Angiotensin II (Ang II), the most important component of the renin-angiotensin system, is usually assocd. with hypertension and renal failure. Through its pro-inflammatory actions, it also plays an important role in each step of the development of atherosclerotic plaques and plaque rupture. Ang II stimulates the expression of nuclear factor- κB (NF κB), a transcription factor which regulates gene expression of inflammatory cytokines such as interleukin-6 (IL-6) and monocyte chemoattractant protein-1 (MCP-1). Ang II type 1 receptors (AT1) and angiotensin converting enzyme (ACE) are dramatically increased in atherosclerotic plaques, particularly in monocytes at the fibrous cap. Thus, in multiple ways, Ang II is a crit. factor in atherosclerotic plaque formation, inflammation and plaque stability. ACE inhibitors and AT1R inhibitors could therefore be appropriate therapeutic agents in the treatment of atherosclerosis.

REFERENCE COUNT:

THERE ARE 90 CITED REFERENCES AVAILABLE FOR THIS 90 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full References Text

ACCESSION NUMBER:

2002:490209 HCAPLUS

DOCUMENT NUMBER:

137:260778

TITLE:

Clinical importance of endothelial function in arteriosclerosis and ischemic heart disease

Egashira, Kensuke AUTHOR (S):

CORPORATE SOURCE:

Department of Cardiovascular Medicine, School of Medical Sciences, Kyushu University, Fukuoka, Japan

SOURCE:

Circulation Journal (2002), 66(6), 529-533

CODEN: CJIOBY; ISSN: 1346-9843 Japanese Circulation Society

PUBLISHER: DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

A review. The vascular endothelium is a dynamic endocrine organ that regulates vascular tone, local homeostasis, and the fibro-inflammatoryproliferative process. These responses are mediated by various substances released from the endothelium in response to physiol. stimuli, including prostacyclin, endothelin and, most importantly, nitric oxide (NO). mediates vasodilation and inhibits platelet aggregation, thrombus formation, expression of adhesion mols. and chemokines for leukocytes, and oxidative stress. It also attenuates growth and proliferation of vascular smooth muscle cells. Risk factors for atherosclerosis, such as hypercholesterolemia, hypertension, diabetes and cigarette smoking, impair endothelial function, which leads to atherosclerosis and results in ischemic manifestations such as acute coronary syndrome and stroke. therapeutic intervention aimed at increasing NO bioavailability by statins or angiotensin-converting enzyme inhibitors might improve patient prognosis. Vascular endothelial function is an important and clin. relevant therapeutic target for cardiovascular disease.

REFERENCE COUNT:

THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS 80 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 12 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing References Text

ACCESSION NUMBER: DOCUMENT NUMBER:

2002:155814 HCAPLUS

137:246072

TITLE:

Cytokine in heart failure and phosphodiesterase

inhibitors

AUTHOR(S):

PUBLISHER:

SOURCE:

Yomogida, Shinichi; Endo, Masao

CORPORATE SOURCE:

School of Medicine, Yamagata University, Japan

Junkan Seigyo (2001), 22(4), 351-355

CODEN: JUSEE7; ISSN: 0389-1844 Nippon Junkan Seigyo Igakkai

DOCUMENT TYPE:

Journal; General Review

prodn.

Japanese LANGUAGE:

A review. Expression of proinflammatory cytokines and chemokines in heart failure and effects of phosphodiesterase inhibitors on proinflammatory cytokine expression are discussed. The topics discussed are (1) expression of tumor necrosis factor- α (TNF- α), macrophage inflammatory protein- 1α (MIP- α), and monocyte chemoattractant protein-1 (MCP-1) in heart failure and (2) phosphodiesterase isoenzymes and effects of phosphodiesterase inhibitors Amrinone and Pimobendan on TNF- α , IL-1 β , and nitric oxide

L15 ANSWER 13 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing References Text

ACCESSION NUMBER: DOCUMENT NUMBER:

AUTHOR (S):

TITLE:

2001:891885 HCAPLUS

136:15338

Cytokines and chemokines: mediators for intercellular

communication in the brain

Minami, Masabumi

CORPORATE SOURCE:

Department of Molecular Pharmacology, Faculty of Pharmaceutical Sciences, Kyoto University, 46-29 Yoshida Shimoadachi-cho, Sakyo-ku, Kyoto, 606-8501,

Japan

SOURCE:

Yakugaku Zasshi (2001), 121(12), 875-885

CODEN: YKKZAJ; ISSN: 0031-6903 Pharmaceutical Society of Japan

PUBLISHER: DOCUMENT TYPE:

Journal; General Review

Japanese

LANGUAGE: A review. The brain includes glial cells (astrocytes, microglia and AΒ oligodendrocytes) and endothelial cells in addn. to neurons. Under some pathol. conditions, it is invaded by leukocytes such as neutrophils, monocytes/macrophages and lymphocytes. Intercellular communication across these cell species is supposed to play crucial roles both in the brain functions and dysfunctions. However, the mol. basis of such intercellular communication remains unclear. We have studied the roles of cytokines and chemokines, which have been investigated as essential mediators in the immune and inflammatory systems, in intercellular communication across neurons. glial cells, endothelial cells and leukocytes. MRNA expression of cytokines such as interleukin-1 β was induced in brain microglia by i.p. injection of excitotoxin and neurostimulant, at least, partly via catecholaminergic systems. MRNA of other cytokines such as leukemia inhibitory factor was induced in astrocytes. This cytokine specifically induced nociceptin mRNA in the cultured cortical neurons. Constitutive expression of some chemokines such as fractalkine and stromal cell derived factor- 1α was obsd. in the brain, suggesting that they play important roles in maintenance of brain homeostasis or detn. of the patterning of neurons and/or glial cells in the developing and adult brains. Cytokines such as interleukin-1, and chemokines such as monocyte chemoattractant protein-1 and macrophage inflammatory protein- 1α were produced in ischemic brain and implicated in ischemic brain injury. In addn. to ischemia, cytokines, chemokines and their receptors have been shown to be involved in various neurodegenerative diseases such as multiple sclerosis, Alzheimer's disease and AIDS dementia syndrome. They are potential targets for therapeutic intervention for neurodegenerative diseases.

L15 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full References Text ACCESSION NUMBER:

2001:506438 HCAPLUS

135:282560

DOCUMENT NUMBER: TITLE:

Inhibitors of monocyte chemoattractant protein-1/CC ligand 2 and its receptor CCR2

Howard, O. M. Zack; Yoshimura, Teizo

AUTHOR(S): CORPORATE SOURCE:

Laboratory of Molecular Immunoregulation, Center for Cancer Research, National Cancer Institute-Frederick,

Frederick, MD, 21702-1201, USA

Expert Opinion on Therapeutic Patents (2001), 11(7)

1147-1151

CODEN: EOTPEG; ISSN: 1354-3776

SOURCE:

PUBLISHER: DOCUMENT TYPE: Ashley Publications Ltd. Journal; General Review

LANGUAGE:

English

A review with refs. Chemoattractant cytokines (chemokines) have been shown to be pro-inflammatory and are thus likely targets for therapeutic intervention. An agent that interferes with directed migration of leukocytes to an inflammatory site is potentially a candidate anti-inflammatory drug. A specific chemokine, monocyte chemoattractant protein (MCP)-1 or CC ligand 2 (CCL2), and its receptor, CC-chemokine receptor 2 (CCR2), have been implicated in both acute and chronic inflammatory and autoimmune diseases assocd. with infiltration of monocytes, macrophages, dendritic cells, NK cells, basophils and memory T-cells. Genetic modification of CCL2 and CCR2 in murine models has demonstrated the potential for antagonists to prevent atherogenic vascular disease and autoimmune inflammatory diseases. Modified CCL2 peptides, which still bind but no longer activate CCR2, demonstrated the therapeutic potential of CCL2 inhibitors in animal models of arthritis. Several classes of small mol. wt. CCL2 inhibitors have also been shown to inhibit chemotaxis in response to CCL2 in vitro and in animal models. However, more work is needed to establish the clin. efficacy of these CCL2 inhibitors.

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN T.15

Citing Full References Text

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE:

2001:51694 HCAPLUS

135:3621

How renal cytokines and growth factors contribute to

renal disease progression

Benigni, Ariela; Remuzzi, Giuseppe

Mario Negri Institute for Pharmacological Research,

Bergamo, 24125, Italy

American Journal of Kidney Diseases (2001), 37(1,

Suppl. 2), S21-S24

CODEN: AJKDDP; ISSN: 0272-6386

W. B. Saunders Co.

Journal; General Review

English

LANGUAGE: A review with 20 refs. Terminal renal failure is the final common fate of chronic nephropathies regardless of the type of original insult. After removal of a crit. no. of nephrons, adaptive hemodynamic changes in the remaining nephrons ensure enough filtration power to the kidney but are ultimately detrimental. Such changes are largely mediated by the local formation of angiotensin II (AII) and prevented by the use of angiotensin-converting enzyme inhibitors, which also limit the forced opening of large unselective pores in the glomerular barrier, restoring size selectivity. Recent studies suggested that proteins filtered through the glomerular capillary, previously considered a marker of the severity of renal lesions, might have intrinsic toxicity on the proximal tubular cells and a contributory role in the progression of renal damage. overload of proximal tubular cells induced the secretion of endothelin-1 (ET-1), monocyte chemoattractant protein-1 (MCP-1), and regulated on activation, normal T expressed and secreted (RANTES) that was mainly directed toward the basolateral compartment of the cell. Evidence available in rat models of proteinuric renal disease shows that expression of genes encoding such vasoactive and proinflammatory mols. as ET-1, MCP-1, and RANTES was consistently upregulated, and synthesis of the corresponding peptides was enhanced in renal tissue. Addnl. mechanisms of

proximal tubular cell activation leading to interstitial inflammation and matrix deposition are the filtration of protein-bound metals and hormones and deposition and activation of filtered complement. Limiting protein traffic and the biol. effect of excessive tubular protein reabsorption by drugs interfering with AII synthesis or biol. activity prevents renal disease progression.

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS 20 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full References Text

ACCESSION NUMBER:

DOCUMENT NUMBER:

TTTLE:

1999:674509 HCAPLUS

131:309326

Oxidized low density lipoprotein. Atherogenic and proinflammatory characteristics during macrophage foam cell formation. An inhibitory role for nutritional

antioxidants and serum paraoxonase

Kaplan, Marielle; Aviram, Michael AUTHOR(S):

CORPORATE SOURCE:

Lipid Research Laboratory, Bruce Rappaport Faculty Medicine, Rappaport Family Institute Research Medical

Sciences, Technion, Haifa, 31096, Israel

SOURCE:

Clinical Chemistry and Laboratory Medicine (1999),

37(8), 777-787

CODEN: CCLMFW; ISSN: 1434-6621 Walter de Gruyter GmbH & Co. KG

PUBLISHER: DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English A review with 122 refs. is given. Oxidative stress and inflammatory processes are of major importance in atherogenesis because they stimulate oxidized LDL (Ox-LDL)-induced macrophage cholesterol accumulation and foam cell formation, the hallmark of early atherosclerosis. Under oxidative stress, both blood monocytes and plasma lipoproteins invade the arterial wall, where they are exposed to atherogenic modifications. Oxidative stress stimulates endothelial secretion of monocyte chemoattractant protein 1 (MCP-1) and of macrophage colony stimulating factor (M-CSF), leading to monocyte adhesion and differentiation, resp. LDL binds to extracellular matrix (ECM secreted by endothelial cells, smooth muscle cells and macrophages) proteoglycans, in a process that contributes to the enhanced susceptibility of the lipoprotein to oxidn. by arterial wall macrophages. ECM-retained Ox-LDL is taken up by activated macrophages via their scavenger receptors. This leads to cellular cholesterol accumulation and enhanced atherogenesis. Protection of LDL against oxidn. by antioxidants that can act directly on the LDL, or indirectly on the cellular oxidative machinery, or conversion of Ox-LDL to a non-atherogenic particle by HDL-assocd. paraoxonase (PON-1), can contribute to attenuation of atherosclerosis.

REFERENCE COUNT:

THERE ARE 122 CITED REFERENCES AVAILABLE FOR 122 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full References Text

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

AUTHOR(S):

1999:55502 HCAPLUS

130:250265

Angiotensin II is involved in the progression of renal disease: importance of non-hemodynamic mechanisms

Wolf, G.

CORPORATE SOURCE:

Department of medicine, division of nephrology and

osteology, University of Hamburg, Germany

Nephrologie (1998), 19(7), 451-456

CODEN: NEPHDY; ISSN: 0250-4960

Medecine et Hygiene PUBLISHER: Journal; General Review DOCUMENT TYPE:

English LANGUAGE:

SOURCE:

Several recent studies have provided clear A review, with 51 refs. AΒ evidence that angiotensin-converting enzyme (ACE)-inhibitors slow the progression of renal disease. These effects are mainly independent from a comitant redn. in systemic blood pressure. Thus, angiotensin II (Ang II) exerts other effects on the kidney which are involved in the loss of renal function. Ang II induces proliferation of cultured mesangial and glomerular endothelial cells. Our group was the first to demonstrate that Ang II stimulates hypertrophy of cultured proximal tubular cells. Ang II stimulates bioactivation and expression of transforming growth factor- β (TGF- β) in tubular MCT cells. This Ang II-mediated expression of TGF- β is due to an increase in transcriptional A neutralizing anti-TGF- β antibody attenuates the Ang II-induced increase in protein synthesis in MCT cells suggesting that the hypertrophy is mediated by synthesis and activation of endogenous TGF-β. Proximal tubular cells undergoing Ang II-mediated hypertrophy are arrested in the G1-phase of the cell cycle and express typical G1-phase-assocd. genes. Induction of such G1-phase-assocd. early growth response genes have been also described in vivo after infusion of Ang II into the renal artery. This G1-phase arrest depends on the induction of the cyclin-dependent kinase (CdK) inhibitor p27Kip1. P27Kip1 expression is stimulated after incubation of LLC-PK1 cells with Ang II or TGF- $\!\beta\!$ and binds to cyclin D1-CdK4 complexes, inhibits their kinase activity, and hampers G1-phase exit. Ang II stimulates transcription of collagen type IV in MCT cells. In addn. to the classical al (IV) chain, a3 (IV) collagen, which has normally a restricted localization in the kidney, is also induced. This stimulation is mediated by endogenous synthesis and autocrine action of TGF- β because a neutralizing anti-TGF- β antibody as well as TGF- β antisense oligonucleotides attenuate Ang II-induced collagen type IV transcription and synthesis. In addn., Ang II exerts immunomodulatory effects on the kidney through the induction of chemokines such as MCP-1 and RANTES. In conclusion, Ang II has emerged as a multifunctional acting as a growth factor and a profibrogenic cytokine, and even having inflammatory properties.

L15 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full References Text ACCESSION NUMBER:

DOCUMENT NUMBER:

REFERENCE COUNT:

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

1998:440575 HCAPLUS

129:215276

Will MCP-1 and RANTES take center stage in inflammatory diseases including asthma?

Conti, Pio; Barbacane, Renato C.; Di Gioacchino,

Mario; Reale, Marcella

Division of Immunology, Department of Oncology and

Neurosciences, University of Chieti School of

Medicine, Chieti, 66100, Italy

Allergy and Asthma Proceedings (1998), 19(3), 121-123

THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CODEN: AAPRFV; ISSN: 1088-5412 OceanSide Publications, Inc.

Journal; General Review

English

A review with 27 refs. RANTES and MCP-1 are potent pro-inflammatory AB cytokines that can chemoattract mast cells in addn. to other inflammatory cells. Recent studies show that RANTES and MCP-1 may increase the no. of mast cell migration in bronchial mucosa during asthma. Therefore, an inhibitory effect of RANTES and MCP-1 could play a role in controlling the inflammatory response in asthma and other inflammatory diseases.

REFERENCE COUNT:

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS 27 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 19 OF 19 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full References Text

ACCESSION NUMBER:

TITLE:

AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT NUMBER:

1996:134893 HCAPLUS 124:199776

Cytokines regulate vascular functions related to

stability of the atherosclerotic plaque

Libby, Peter; Sukhova, Galina; Lee, Richard T.; Galis,

Zorina S.

Department Medicine, Brigham & Women's Hospital and Harvard Medical School, Boston, MA, 02115, USA

Journal of Cardiovascular Pharmacology (1995),

25 (Suppl. 2), S9-S12

CODEN: JCPCDT; ISSN: 0160-2446

Lippincott-Raven

Journal; General Review DOCUMENT TYPE:

English LANGUAGE:

A review, with 23 refs. The cytokines are multipotent mediators of inflammation and immunity that can affect key functions of vascular wall cells. Growing evidence suggests that cytokines participate as autocrine or paracrine mediators in atherogenesis, as cells in lesions can both produce and respond to these mediators. The functions of vascular wall cells regulated by cytokines may influence lesion initiation, progression, or complication. For example, cytokines can regulate the expression of adhesion mols. crucial to the recruitment of leukocytes to lesions, including vascular cell adhesion mol.-1 (VCAM-1). Cytokines such as interleukin-1 (IL-1) and tumor necrosis factor- α (TNF- α) can regulate the prodn. of monocyte chemoattractant protein-1 (MCP-1), a potential signal for directed migration of monocytes into the intima. Cytokines can also regulate genes that encode other growth factors and TNF- α can induce IL-1 mRNA in human cytokines themselves. endothelial (EC) and smooth-muscle cells (SMC). IL-1 and TNF- α can augment the prodn. by vascular cells of macrophage-colony stimulating factor (M-CSF), which may promote growth and activation of mononuclear phagocytes. Cytokines can exert both pro- and antiatherogenic actions. Activated T cells in human atheroma may secrete the lymphokine IFN-γ, an inhibitor of SMC proliferation. Cytokines influence vasomotor tone in arteries, e.g., by inducing a form of nitric oxide synthase, the enzyme that synthesizes the vasodilatory nitric oxide radical. The cytokines also modulate endothelial functions that govern the formation and stability of blood thrombi. Finally, in the late stags of the disease, matrix metalloproteinases derived from macrophages or smooth-muscle cells themselves may contribute to weakening of the fibrous cap in the vulnerable shoulder area, promoting plaque rupture and occlusive thrombosis, culminating in the dramatic clin. manifestations of atherosclerosis, including myocardial infarction and stroke. Thus, cytokines can influence multiple aspects of atherogenesis and provide new and interesting targets for therapeutic intervention.

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FILE COVERS 1907 - 16 Jun 2004 VOL 140 ISS 25 FILE LAST UPDATED: 15 Jun 2004 (20040615/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s rantes () inhibitor?

3405 RANTES

880882 INHIBITOR?

3 RANTES (W) INHIBITOR?

=> s l1 and review/dt

1734809 REVIEW/DT

1 L1 AND REVIEW/DT 1.2

=> d 12, ibib abs, 1

ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing References Text

ACCESSION NUMBER:

1997:712630 HCAPLUS

DOCUMENT NUMBER:

127:357799

TITLE:

High throughput screening for identification of RANTES

chemokine expression inhibitors

AUTHOR (S):

Barnes, Debra A.; Jones, Steven W.; Perez, H. Daniel

CORPORATE SOURCE:

USA

SOURCE:

Methods in Enzymology (1997), 287(Chemokines), 292-304

CODEN: MENZAU; ISSN: 0076-6879

PUBLISHER:

Academic

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

A review with 31 refs. on a procedure using CH235 astrocytoma cells to screen for inhibitors of RANTES expression.

=> s MCP-1 () inhibitor?

7067 MCP

380 MCPS

7227 MCP

(MCP OR MCPS)

7921402 1

3461 MCP-1

(MCP(W)1)

880882 INHIBITOR?

L3 14 MCP-1 (W) INHIBITOR?

=> s 13 and review/dt

1734809 REVIEW/DT

L4 1 L3 AND REVIEW/DT

=> d 14, ibib abs, 1

L4 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing Text References

ACCESSION NUMBER: 2003:704642 HCAPLUS

DOCUMENT NUMBER: 139:285453

TITLE: AGI-1067: Treatment of atherosclerosis VCAM-1 and

MCP-1 expression inhibitor antioxidant

AUTHOR(S): Sorbera, L. A.; Castaner, J.

CORPORATE SOURCE: Prous Science, Barcelona, 08080, Spain SOURCE: Drugs of the Future (2003), 28(5), 421-424

CODEN: DRFUD4; ISSN: 0377-8282

PUBLISHER: Prous Science

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. AGI-1067 is a monosuccinate ester of probucol that exhibited marked lipid-lowering and antioxidant activity. AGI-1067 potently inhibited VCAM-1 and MCP-1 expression and smooth muscle cell proliferation and was effective in animal models of atherosclerosis and hyperlipidemia. The agent has shown efficacy in the prevention of atherosclerosis in patients with coronary artery disease and in preventing restenosis in patients undergoing percutaneous coronary interventions. AG-1067 is currently undergoing phase III trials with an indication for secondary prevention of atherosclerotic cardiovascular disease.

REFERENCE COUNT:

22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> S Rantes () chemotaxis?

3405 RANTES

13976 CHEMOTAXIS?

L5 8 RANTES (W) CHEMOTAXIS?

=> s 15 and inhibitors

463870 INHIBITORS

L6 1 L5 AND INHIBITORS

=> s 16 and review/dt

1734809 REVIEW/DT

L7 0 L6 AND REVIEW/DT

=> s MCP-1 () chemotaxis?

7067 MCP

380 MCPS

7227 MCP

(MCP OR MCPS)

7921402 1

3461 MCP-1

(MCP(W)1)

13976 CHEMOTAXIS?

L8 1 MCP-1 (W) CHEMOTAXIS?

=> s 18 and review/dt 1734809 REVIEW/DT L9 0 L8 AND REVIEW/DT